

# SERVICE MANUAL

## 2005 Drawer Fridge




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## CONTENTS OF THE MANUAL: NOTE FOR THE ENGINEER

This manual is a supporting document for technical personnel. It contains a description of the various product types, the general operating principle, and indications concerning assistance.

Technical personnel should anyway consult the specific model on  **servicenet** ([servicenet.indesitcompany.com](http://servicenet.indesitcompany.com)) to access data and updates of electrical diagrams, technical bulletins, and spare parts.

# CONTENTS

<b>1. PRODUCT TYPE</b>	<b>4-5</b>
Key	4
Interfaces	4
Energy Label	5
Technical Data	5
<b>2. OPERATING LOGIC</b>	<b>6-7</b>
Characteristics of the appliance	6
Instructions for settings and operation	7
Tips for The User	7
<b>3. COMPONENTS</b>	<b>8-9</b>
<b>4. WIRING DIAGRAMS</b>	<b>10-11</b>
<b>5. ASSISTANCE</b>	<b>12-16</b>
Troubleshooting	12
Disassembly / Assembly	13-16
<b>6. EXPLODED VIEWS</b>	<b>17-19</b>
<b>7. APPENDICES</b>	<b>20</b>
Disassembly and dimensional drawings:	20

Indesit Company

## 1. PRODUCT TYPE:

### 1.1. KEY:

Ariston: BDR 190 AAI

B	DR	190	AA	I
Built In	Drawer	Capacity (litres)	Energy Class A+	Isobutane



Scholtès: RT 19 AAI

R	T	19	AA	I
Refrigerateur	Tiroirs	Capacity (litres)	Energy Class A+	Isobutane

Hotpoint: HDR 190 I

H	DR	190	I
Hotpoint	Drawer	Capacity (litres)	Isobutane

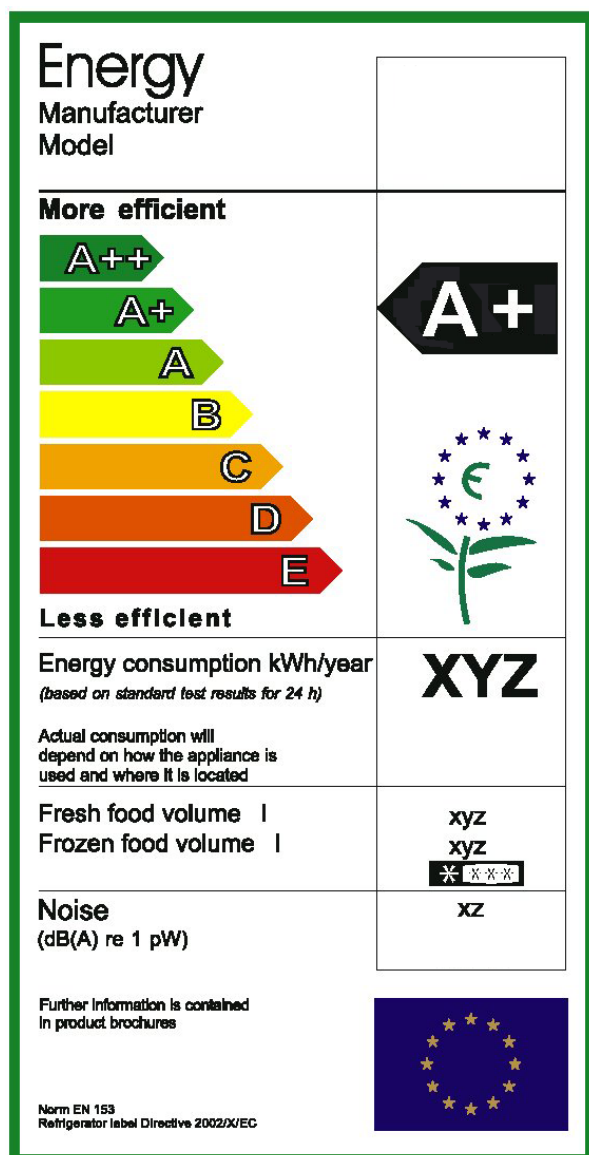
### 1.2. INTERFACE:



1. **THERMOSTAT knob**
2. **OPERATING indicator light**

The user interface of the drawer fridge is composed of an adjustable thermostat where position “●” corresponds to OFF and numbers from 1 to MAX serve to set the required temperature, from the least cold position, (1) to the coldest position (MAX)

### 1.3. ENERGY LABEL:



### 1.4. TECHNICAL DATA:

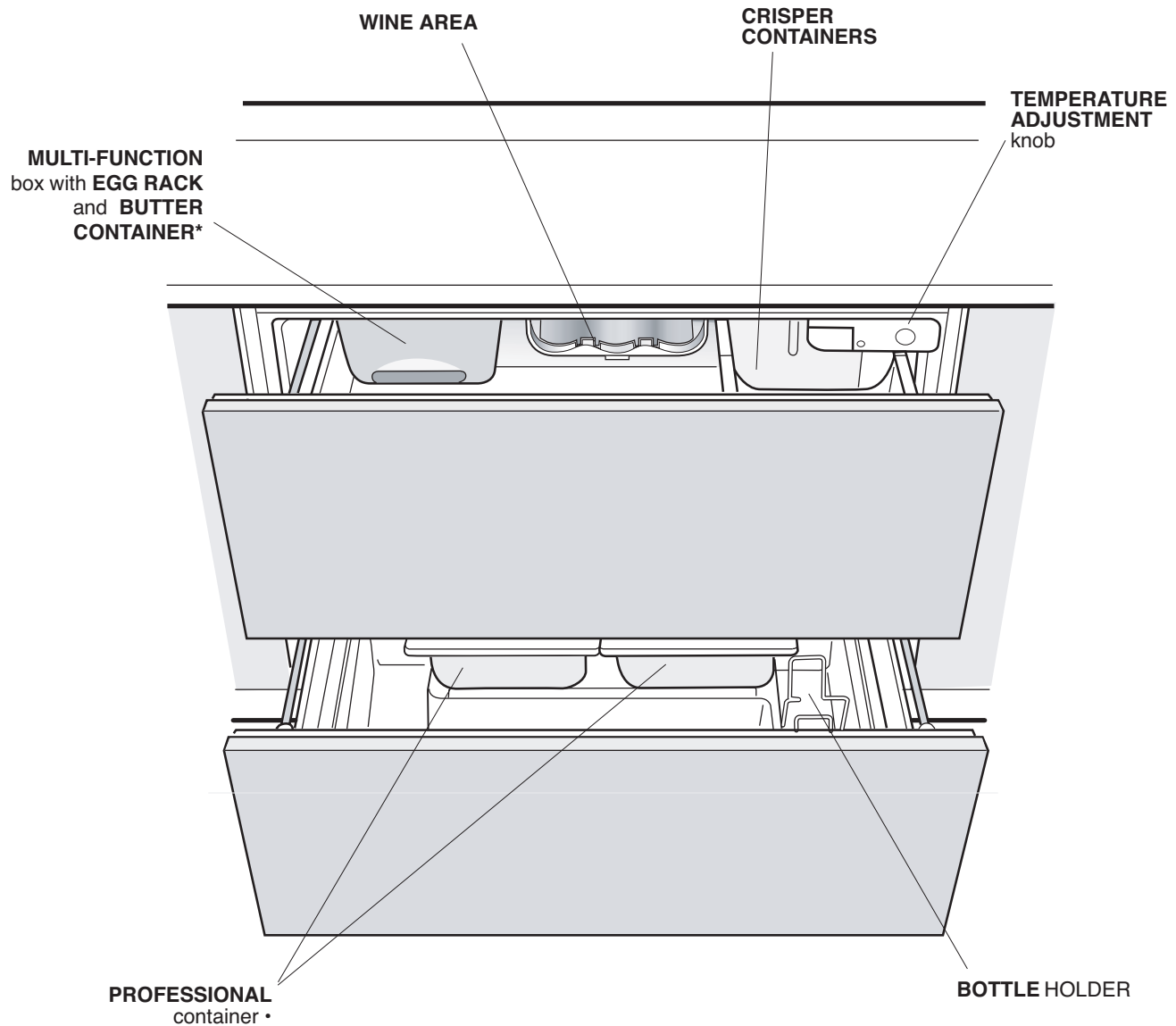
#### DATA FOR DOCUMENTATION OF DRAWER MODELS

BRAND	ARISTON	HOTPOINT	SCHOLTES
COMMERCIAL CODE	34435	34437	34436
DESCRIPTION	BDR 190 AAI	HDR 190 I	RT 190 AAI
VOLTAGE (V)	220-240	220-240	220-240
FREQUENCY (Hz)	50*	50	50
APPLIANCE POWER (W)	70*	70	70
REFRIGERANT	R600a*	R600a	R600a
QUANTITY OF REFRIGERANT FR (kg)	0,030*	0,030	0,030
ENERGY CLASS	A+*	A+	A+
CONSUMPTION (KWh/year)	120,45*	120,45	120,45

(\*) The US version uses R134 refrigerant, resulting in slightly different characteristics.

## 2. OPERATING LOGIC

### 2.1 CHARACTERISTICS OF THE APPLIANCE:



The appliance is equipped with a **MULTI-FUNCTION BOX** for storage of food such as eggs and butter to keep the refrigerator compartment odour free.

A three-bottle capacity **WINE AREA** is attached to top of the appliance compartment; when not in use the wine rack can be closed so that it occupies just three centimetres.

The two **CRISPER CONTAINERS** in the upper drawer are easily removable for cleaning purposes. The Scholtès version is equipped with a basket fitted above the crisper containers.

The **PROFESSIONAL CONTAINERS** in the lower drawer are equipped with a lid and designed for storage of meat, fish or cheese.

Finally, the **BOTTLE RACK** is suitably shaped to hold two bottles in a stable upright position.

## 2.2 INSTRUCTIONS FOR SETTINGS AND OPERATION:



The appliance is controlled by means of a thermostat located on the right on the compartment ceiling inside the thermostat housing. The thermostat serves to control the temperature in the refrigerator compartment. To set higher temperatures select lower numbers, to set lower temperatures select higher numbers.

On the Scholtès appliance there is a light in the thermostat housing that illuminates when the upper drawer is opened.

The evaporator is located on the rear wall of the



appliance, which also contains the drain hole for the defrost water that forms during compressor stops.

## 2.3 TIPS FOR THE USER:

- The refrigerator must be installed in a dry well-ventilated area
- Do not obstruct ventilation at the rear of the appliance.
- Install well clear from heat sources.
- Install the appliance on a perfectly level horizontal surface.
- After positioning the appliance allow it to stand for a while before connecting the power supply.
- **Disconnect the power supply:** During cleaning and maintenance operations disconnect the power supply by unplugging the appliance from the mains socket outlet. It is not sufficient to set the temperature control knob to position "●" (appliance OFF) to disconnect the power.
- **Clean the appliance as recommended:** Exterior parts, interior parts, and rubber seals can be cleaned with a sponge moistened with warm

water and sodium bicarbonate or neutral detergent. Do not use solvents, abrasive detergents, bleach or ammonia.

Removable accessories can be washed in hot water and soap or washing up liquid. Rinse the parts and dry with care.

- **To avoid the formation of odours:** The appliance is made of hygienic materials that do not transmit odour. To maintain this property, all food stored in the appliance must be properly wrapped and inserted in sealed containers. This will also prevent the formation of stains.

If the appliance is to remain switched off for a prolonged period, clean the interior and leave the drawers open.

Remember that cooked food cannot be stored for longer periods than uncooked food.

Do not place liquids in the refrigerator unless they are in sealed containers as they could increase the moisture level inside the refrigerator compartment with a consequent increase in the formation of condensation.

### 3. COMPONENTS:



**Control Panel.**



**Crisper containers.**



**Adjustable Foot.**



**Professional container.**



**Wine Area.**



**Bottle Holder.**

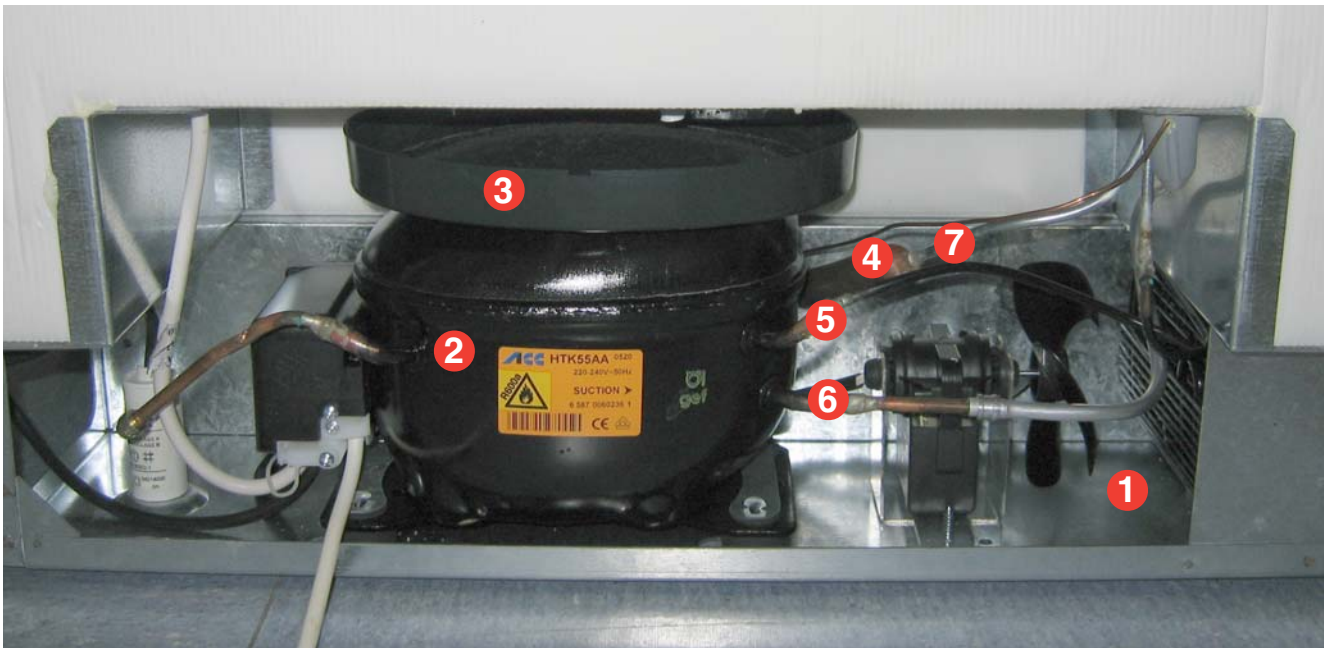


**Multifunction box.**



**Drip tray.**

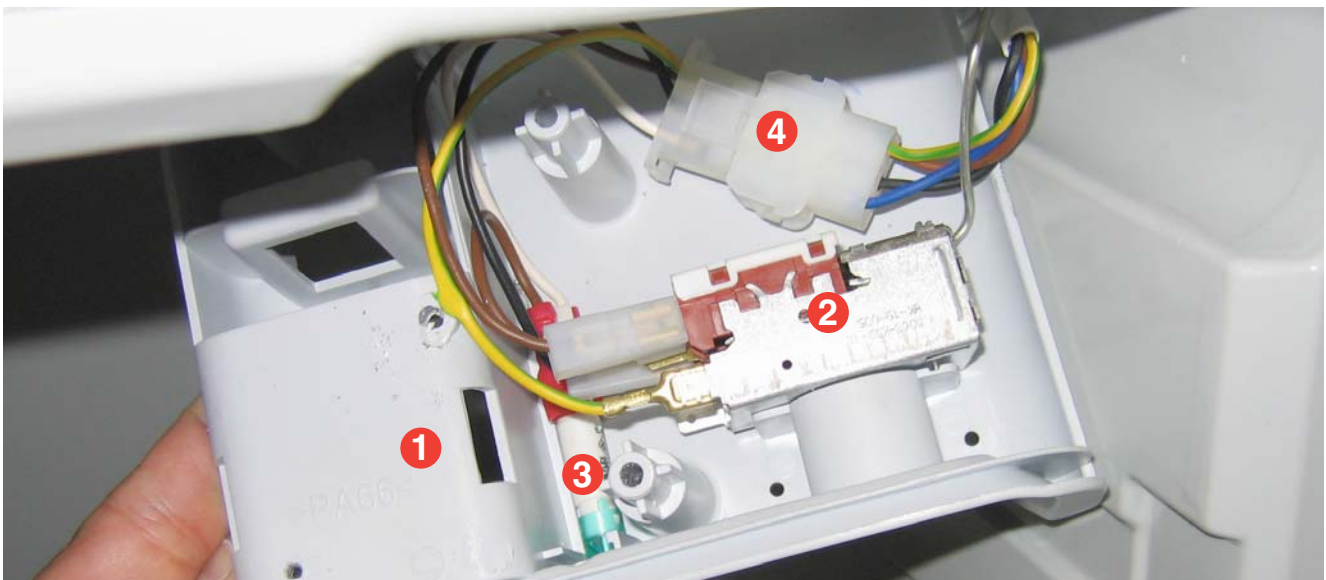




### Rear Components:

#### Key:

- |                           |                   |
|---------------------------|-------------------|
| 1. Compressor Compartment | 4. Filter         |
| 2. Compressor             | 5. Delivery Tube  |
| 3. Water Bowl             | 6. Return Tube    |
|                           | 7. Capillary Tube |

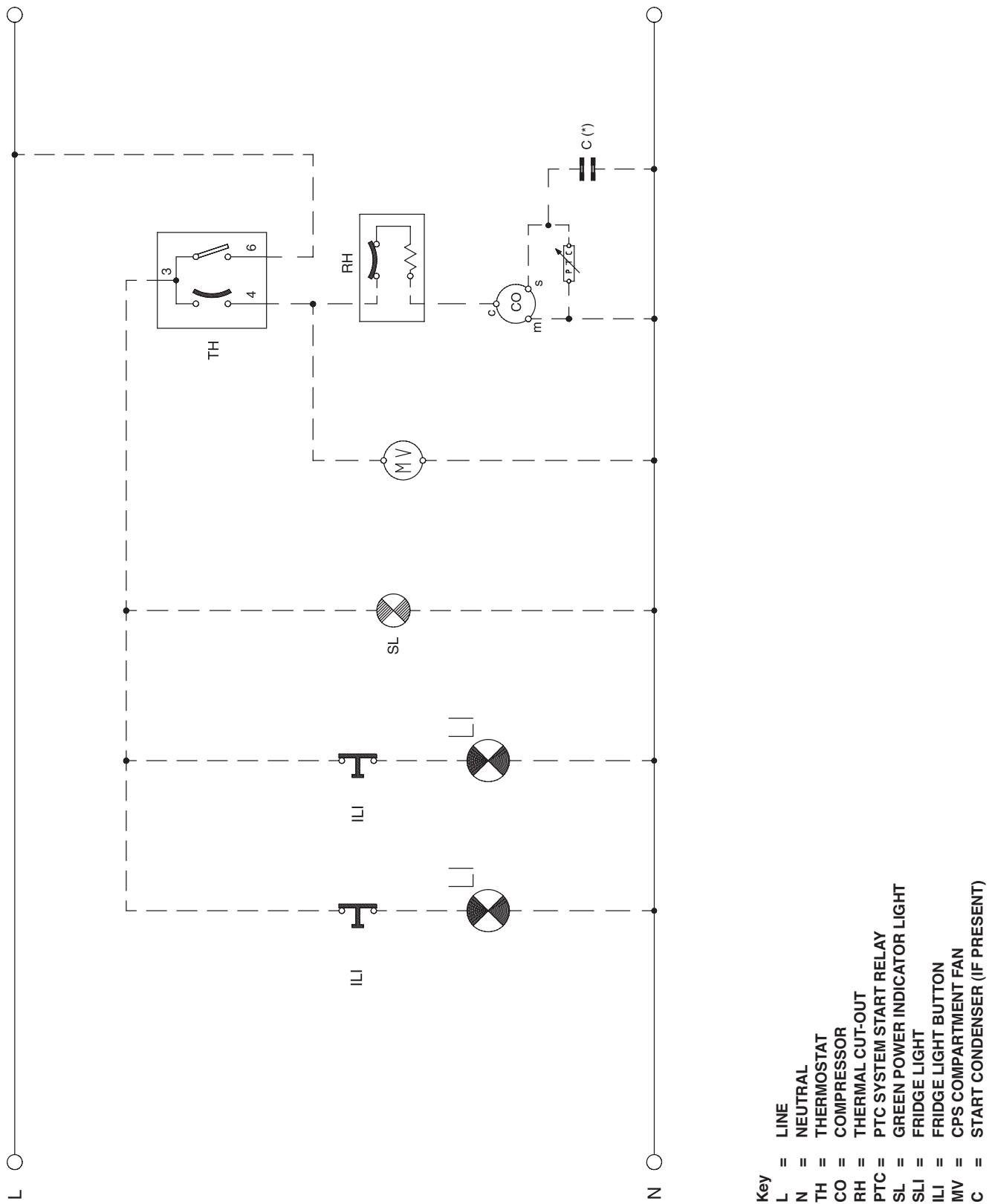


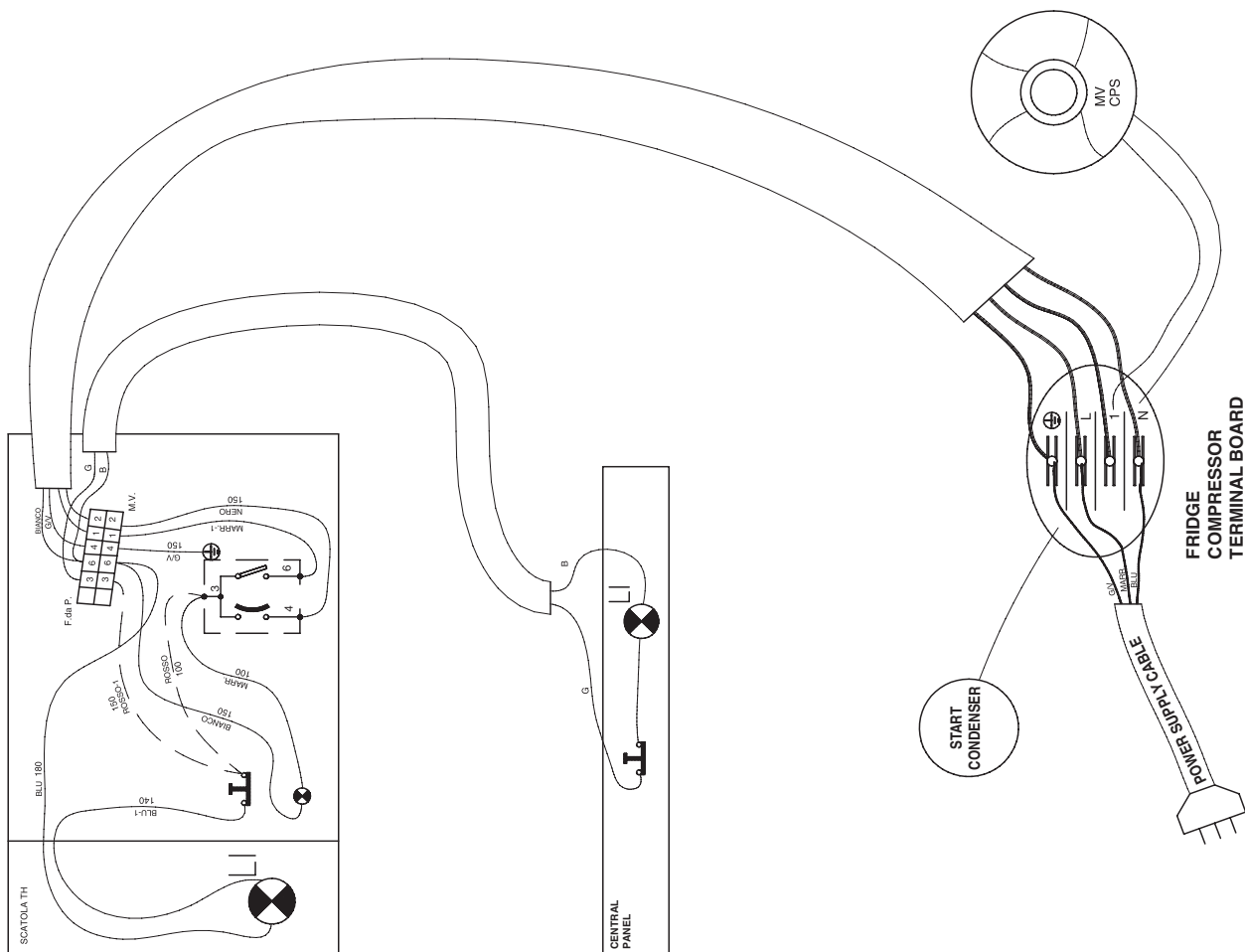
### Thermostat Components:

#### Key:

- |                           |                              |
|---------------------------|------------------------------|
| 1. Thermostat Compartment | 2. Thermostat                |
|                           | 3. Operation indicator light |
|                           | 4. Connector                 |
- (Lamp, lamp holder and start button are found on Scholtès appliances only)

## 4. WIRING DIAGRAMS:





## 5. ASSISTANCE:

### 5.1. TROUBLESHOOTING:

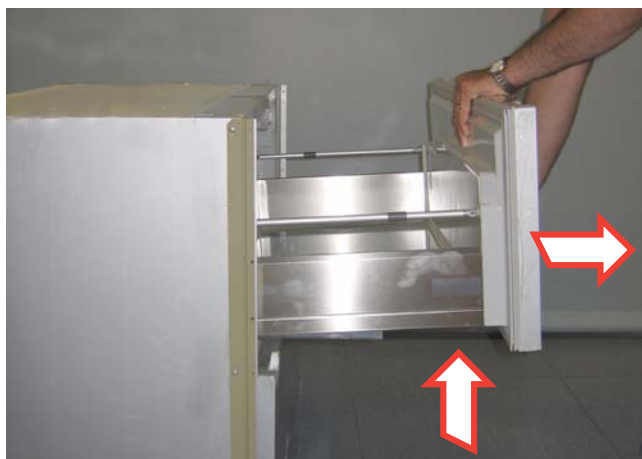
PROBLEM	ANALYSIS
<b>Fails to switch on.</b>	<ul style="list-style-type: none"> <li>- Check voltage on mains socket outlet.</li> <li>- Check power cord.</li> </ul>
<b>Compressor fails to start.</b>	<ul style="list-style-type: none"> <li>- Check continuity of windings.</li> <li>- Check operation of Klaxon relay.</li> <li>- Appliance set to OFF.</li> </ul>
<b>Compressor runs but appliance fails to cool.</b>	<ul style="list-style-type: none"> <li>- Compressor is cold - check refrigerant charge.</li> <li>- Compressor is very hot - Check for traces of oil or refrigerant circuit is blocked.</li> <li>- Check for possible faulty compressor.</li> </ul>
<b>Compressor unable to start.</b>	<ul style="list-style-type: none"> <li>- Faulty Klaxon relay.</li> <li>- Faulty compressor.</li> <li>- Mains voltage too low.</li> </ul>
<b>Water on the bottom of the fridge compartment.</b>	<ul style="list-style-type: none"> <li>- Drain hole blocked.</li> <li>- Container or wrapping paper touching refrigeration walls.</li> </ul>
<b>Water on floor.</b>	<ul style="list-style-type: none"> <li>- Condensate collection bowl ruptured.</li> <li>- Water drain tube incorrectly positioned.</li> <li>- Condensate collection bowl not in contact with compressor.</li> </ul>
<b>Compressor fails to stop.</b>	<ul style="list-style-type: none"> <li>- Faulty thermostat.</li> <li>- Incorrectly positioned thermostat bulb.</li> <li>- Unsuitable installation of electrical Klaxon.</li> <li>- Drawer(s) not closed properly.</li> <li>- Refrigerant circuit insufficient charge or blocked.</li> </ul>
<b>Compressor fails to start.</b>	<ul style="list-style-type: none"> <li>- Damaged compressor.</li> <li>- Check thermostat.</li> </ul>
<b>Appliance runs noisily.</b>	<ul style="list-style-type: none"> <li>- Appliance not level.</li> <li>- Refrigerator installed between adjacent units or objects subject to vibration.</li> <li>- Check compressor fan unit.</li> <li>- Pipes in compressor compartment incorrectly positioned.</li> </ul>
<b>Food frozen.</b>	<ul style="list-style-type: none"> <li>- Check thermostat setting.</li> <li>- Check thermostat operation.</li> <li>- Check thermostat bulb insertion.</li> </ul>
<b>Refrigerator compartment insufficiently cold.</b>	<ul style="list-style-type: none"> <li>- Drawer remains open.</li> <li>- Damaged seals.</li> <li>- Thermostat adjustment.</li> </ul>

## 5.2. DISASSEMBLY/ASSEMBLY:

### Removing a drawer:



1. Open the drawer.



2. Raise the drawer and pull towards the front of the appliance.



N.B.: If the component to be renewed is the drawer runner, undo the 3 fixing screws and remove the runner (see photos 1 and 2).



N.B.: The drawer seal is fitted into its seat by exerting pressure. To change the seal simply pull out the original one and press the replacement seal into the seat.

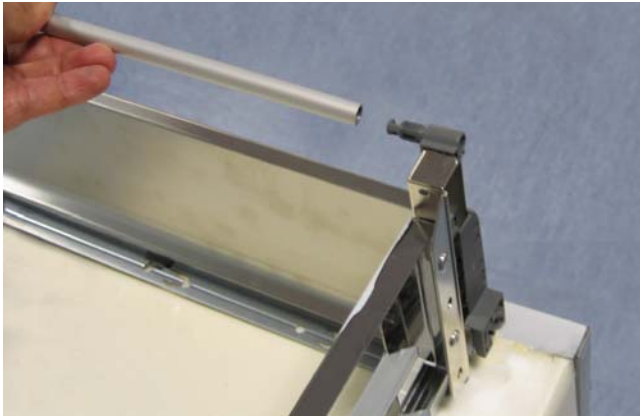


**Basic drawer disassembly:**

1. First remove the drawer as described above.



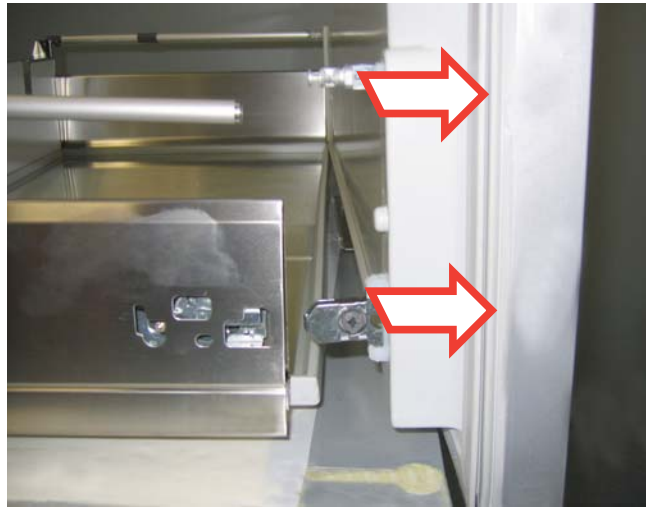
2. Remove the plastic cover from both sides of the drawer by prising with a small flat blade screwdriver.



3. Rotate the tube at the top of the drawer to unscrew it.



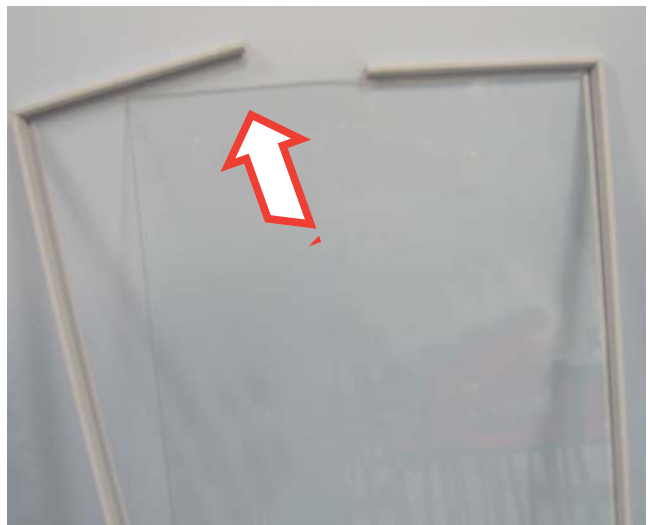
4. Insert a crosshead screwdriver as shown in the photo and turn slightly to detach the cross member on the front of the drawer. (Perform this step on both sides of the drawer)



5. Remove the front section of the drawer.



6. Slide out the glass panel towards the front of the drawer.



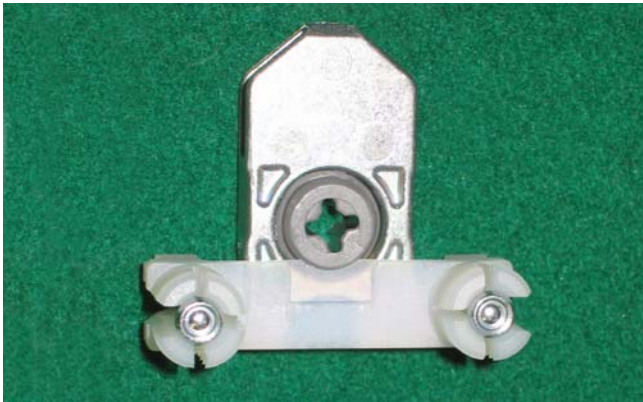
7. Remove the panel surround.

**Removing the drawer front panel:**

1. First remove the drawer as described above.
2. Perform the basic drawer disassembly procedure.



3. Rotate the support as shown in the photo. This action serves to free the cam that fixes the support to the front panel.



4. Pull upwards to remove.



5. Rotate the upper tube support dowel pin to release the fixing cam and then pull the dowel pin.



6. Remove the aluminium base by undoing the 3 screws.



**N.B.:** To refit the front panel correctly, check that the base is correctly inserted in the housings in the lateral cross members.

**Removing the thermostat:**

1. Perform the procedure to disassemble the drawer as described above.



2. Press the point shown in the photo to disengage the plastic cover.



3. Remove the plastic cover.



4. Undo the two screws fixing the thermostat housing.



5. Remove the thermostat knob and use long-nose pliers to undo the nut responsible for securing the thermostat.

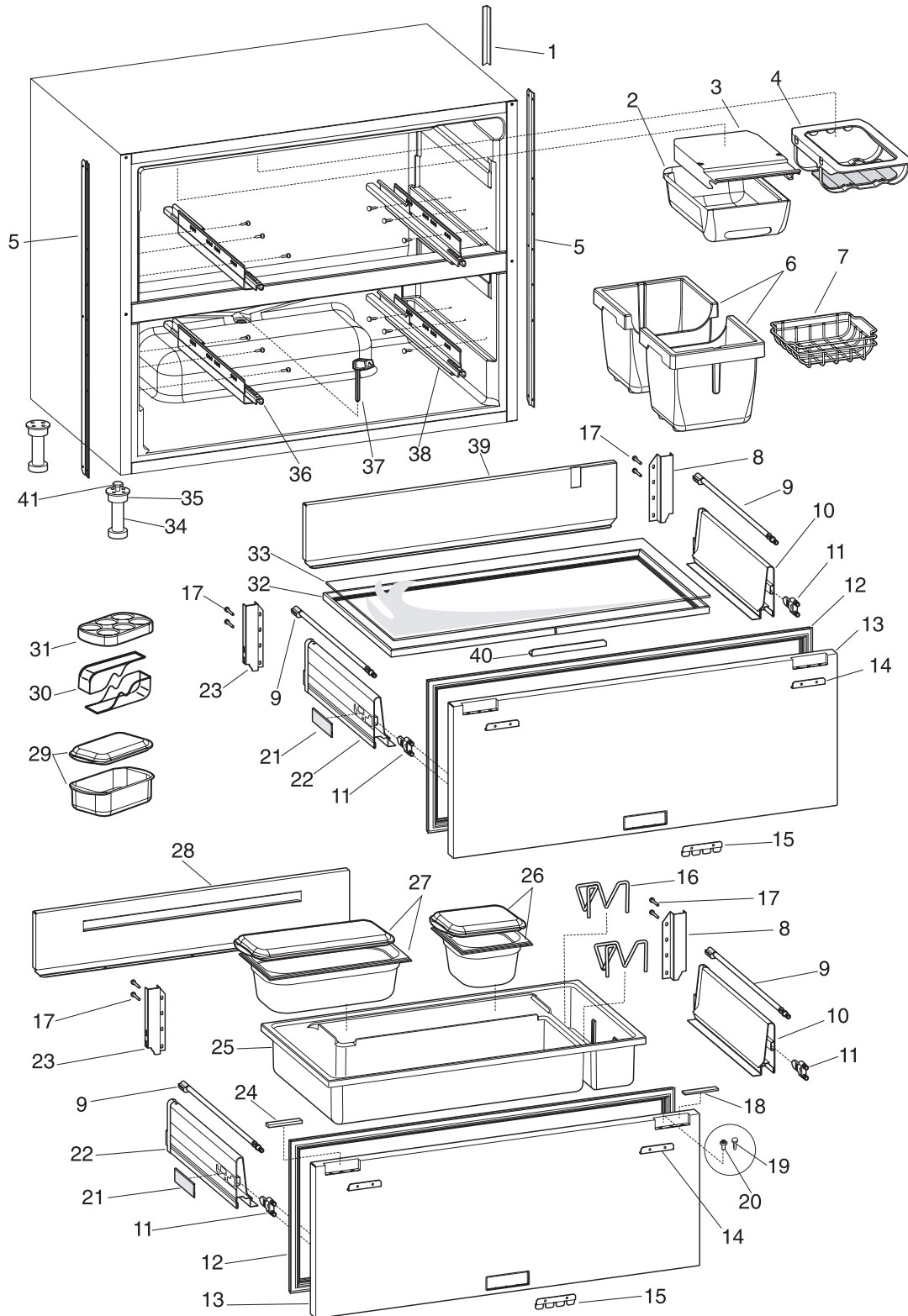
**Changing the lamp:**

To change the lamp unplug the appliance from the mains socket outlet and gain access by removing the cover; replace the lamp with an identically rated new lamp (the power rating is shown on the cover: 10W, 15W or 25W).

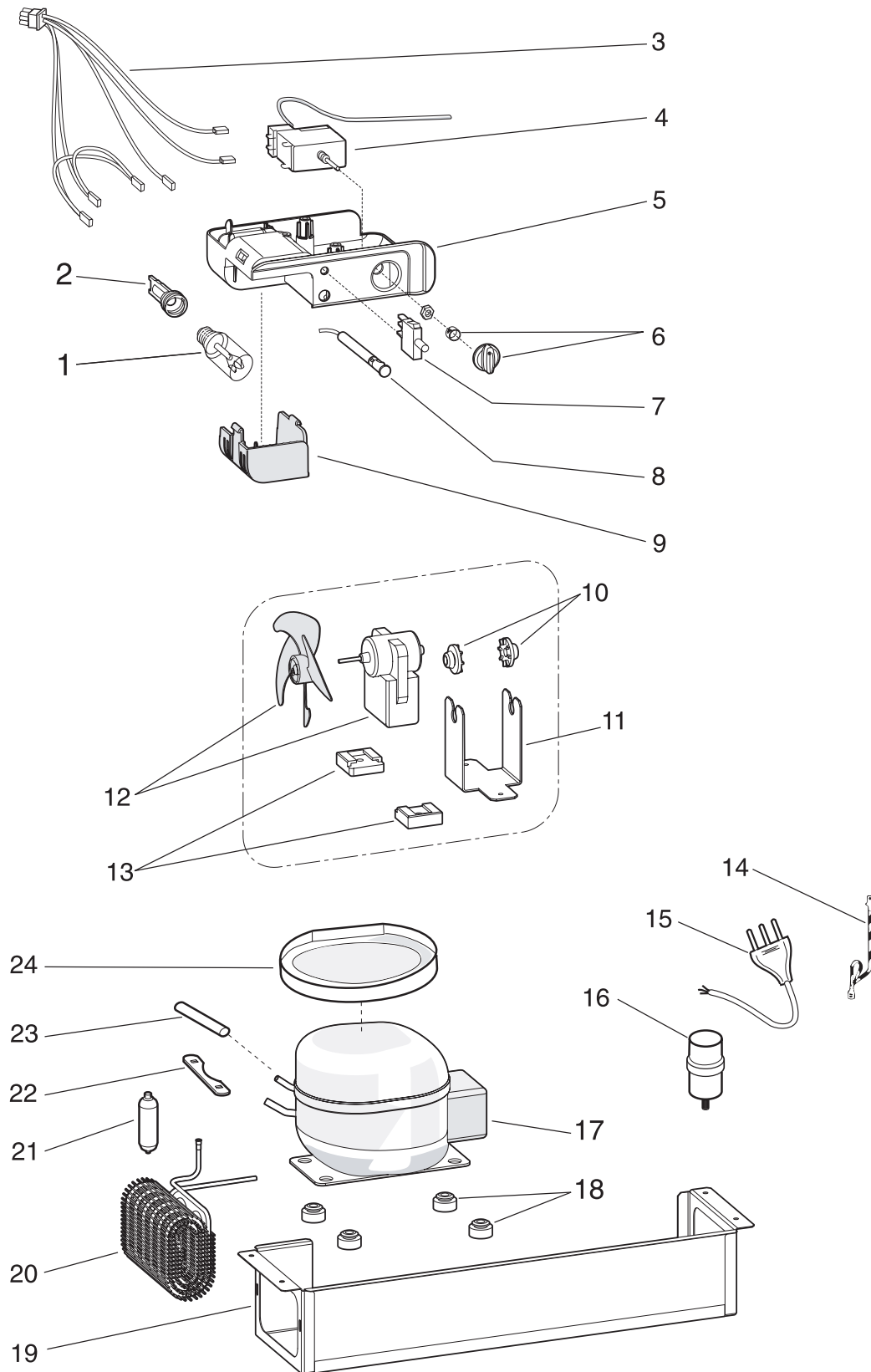


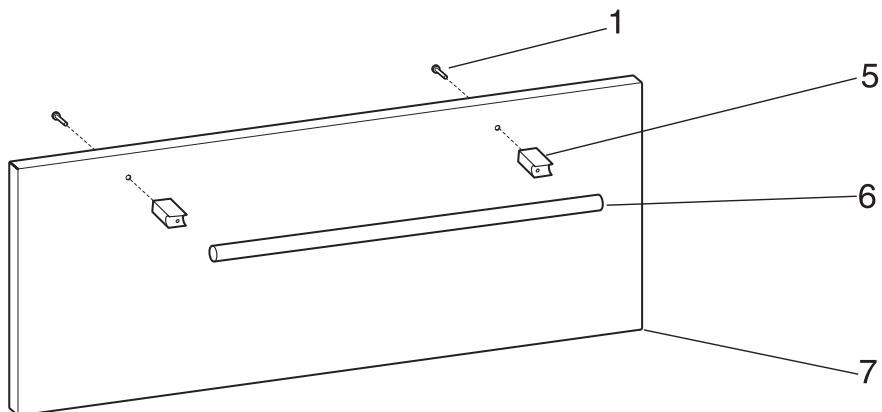
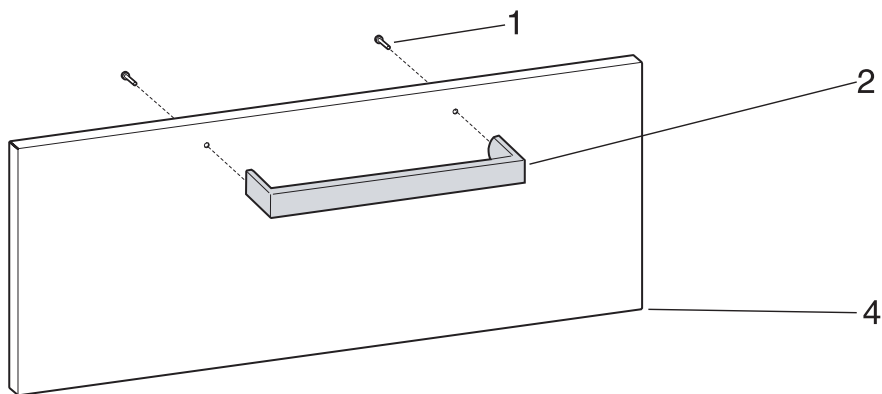
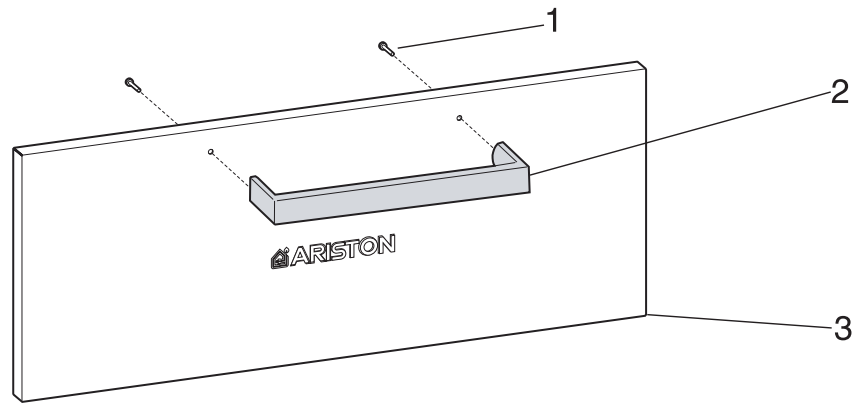
## 6. EXPLODED VIEWS:

### STRUCTURAL VIEW OF THE DRAWER FRIDGE



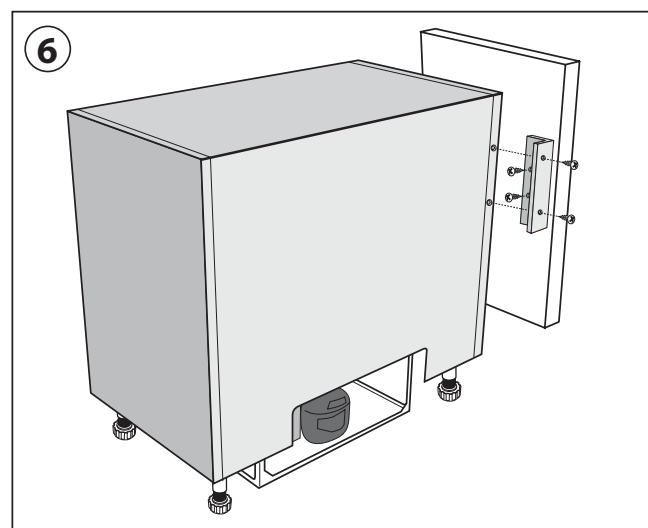
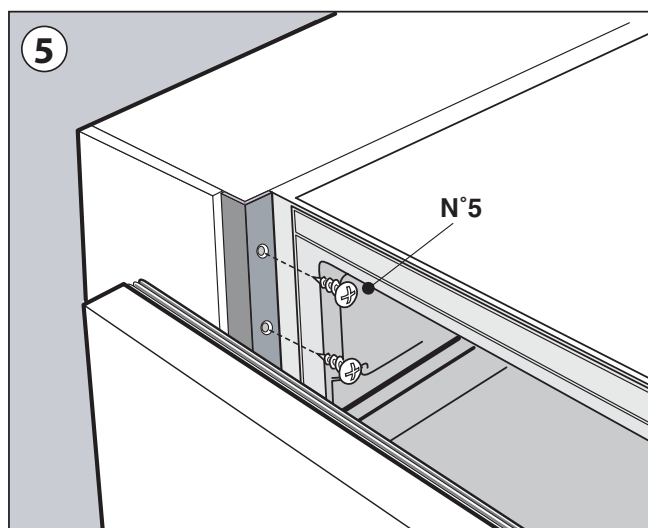
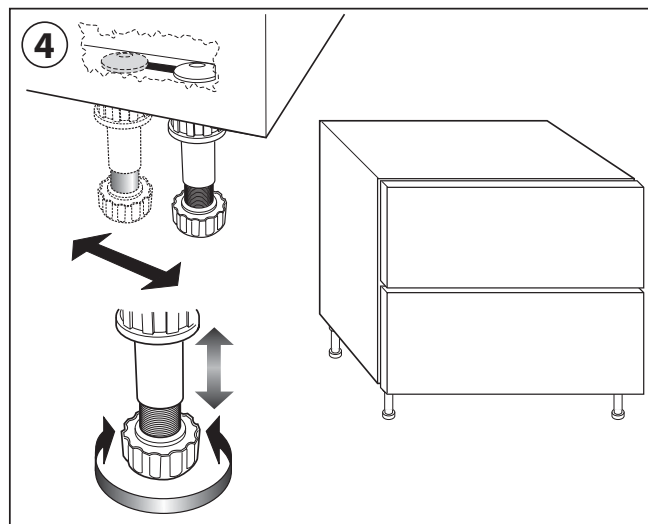
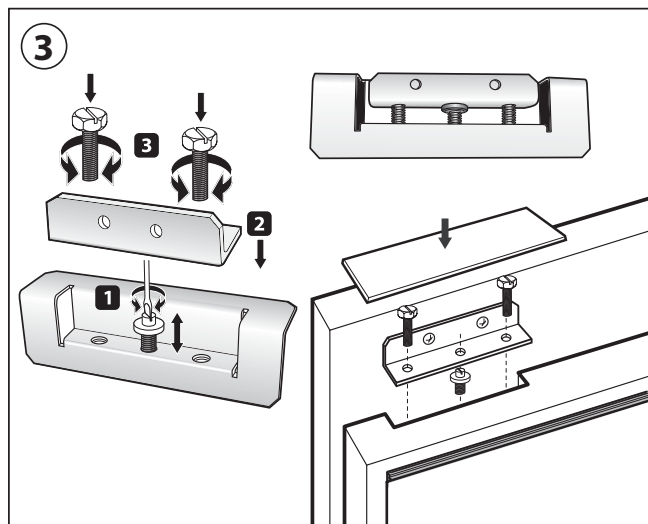
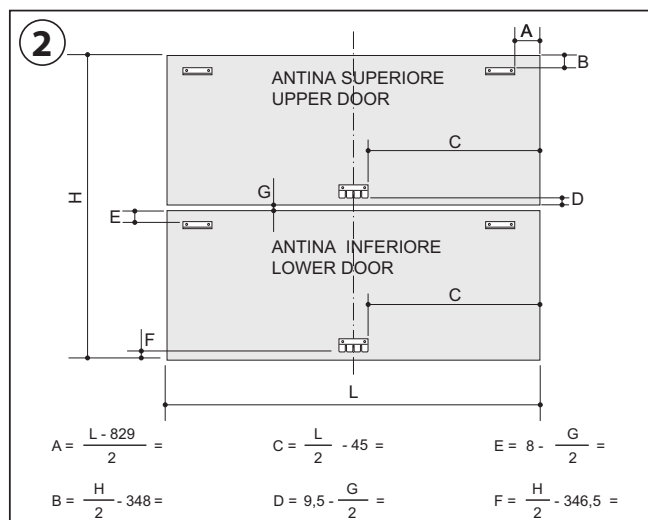
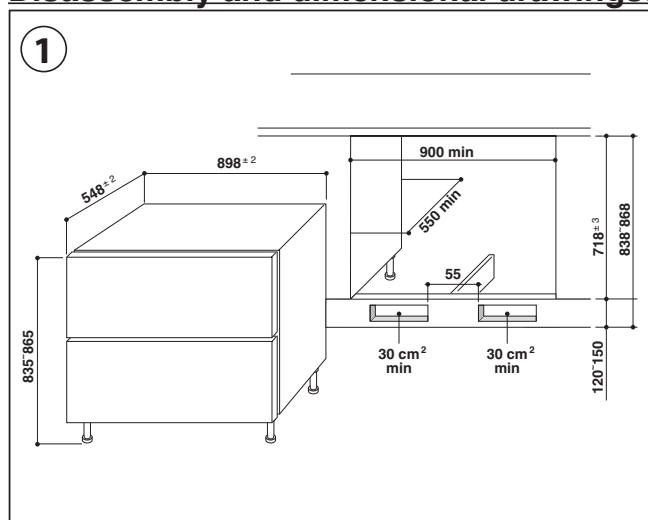
## COMPRESSOR COMPARTMENT AND THERMOSTAT



**DRAWER HANDLES**

## 7. APPENDIX:

### Disassembly and dimensional drawings:



**Indesit Company**

viale Aristide Merloni, 47

60044 Fabriano - Italy

tel. +39 0732 66 11 - telex 560196 - fax +39 0732 66 2954 - [www.indesitcompany.com](http://www.indesitcompany.com)